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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/677,367	10/03/2003	Jang-hyoun Youm	1572.1145	9821	
21171 7	7590 09/01/2004		EXAMINER		
STAAS & HALSEY LLP			IP, SHIK LU	IP, SHIK LUEN PAUL	
SUITE 700	ORK AVENUE, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005			2837		

DATE MAILED: 09/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		•	DIC
	Application No.	Applicant(s)	
	10/677,367	YOUM, JANG-HY	OUN
Office Action Summary	Examiner	Art Unit	
	Paul Ip	2837	
The MAILING DATE of this communication a		with the correspondence ad	ldress
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a relative to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may eply within the statutory minimum of tod will apply and will expire SIX (6) Moute, cause the application to become	a reply be timely filed thirty (30) days will be considered timel IONTHS from the mailing date of this co	y. ommunication.
Status			
1) Responsive to communication(s) filed on	·		
,—	nis action is non-final.		
3) Since this application is in condition for allow			e merits is
closed in accordance with the practice unde	r <i>Ex par</i> te Quayle, 1935 C	C.D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-17 is/are pending in the application	on.		
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-17</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exami	iner.		
10)⊠ The drawing(s) filed on <u>03 October 2003</u> is/a	re: a)⊠ accepted or b)□	objected to by the Examin	ier.
Applicant may not request that any objection to t			
Replacement drawing sheet(s) including the corr			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attack	ned Office Action or form P	10-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreit a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Burd * See the attached detailed Office action for a light specified.	ents have been received. ents have been received in riority documents have be eau (PCT Rule 17.2(a)).	n Application No en received in this National	Stage
Attachment(s) 1) Notice of References Cited (PTO-892)		ew Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper	No(s)/Mail Date of Informal Patent Application (PT	O-152)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 10/3/03.	6) Other:		U-102)

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 10/3/2003 in compliances with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3, 6-10, and 12-17 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 7-308087.

With respect to the claims, the Japanese publication shows in figures 1-3 a dioderectifying unit 1, a capacitor 4, a resistor 3, an inverter 5, a dynamic braking circuit 8, and a relaying unit (2a and 6) for dynamic braking a motor 9.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claims 3-5 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 7-308087 in view of JP 11-206184, or Ono (6,653,806), or Prior Art Figure 1.

Whereas, claims 3-5 and 11 further require the inverter circuits has a pair of inverting elements comprising a transistor and a diode connected to the transistor in parallel. However, the Japanese publication JP 11-206184, Ono, and Prior Art Figure 1 show the transistor and the diode connected to the transistor in parallel, and the dynamic braking circuit is separated units. Since the use of transistor and diode connected in parallel or a separate dynamic braking circuit in alternative is notorious old in the art, it would have been obvious to modify the Japanese publication JP 7-308087 with a separate dynamic braking circuit as taught or suggested by JP 11-206184, or Ono, or Prior Art Figure 1 in place of the dynamic braking circuit 8 of the Japanese publication 7-308087.

Citation of Pertinent References

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents and publications to Fry et al (3,991,352), Murty et al (5,291,106), Makinen et al (4,672,277), Plunkett (4,093,900), King (6,331,365), Mizuno (6,611,126), Wu (5,471,125), and JP 8-23601 disclose dynamic braking control systems comprising a dynamic braking unit and an inverter comprising transistor and diode pairs.

Customer Services Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Ip whose telephone number is (571)-272-1941. The examiner can normally be reached on Monday to Friday from 6:30 a.m. to 3:00 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin, can be reached on (571)-272-1207. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Ip

Primary Examiner Art Unit 2837